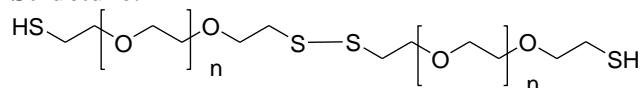


Sample Name:

Poly (ethylene glycol) dithiol with disulfide linkage

Sample #: **P40973A-EGdisulfide**

Structure:

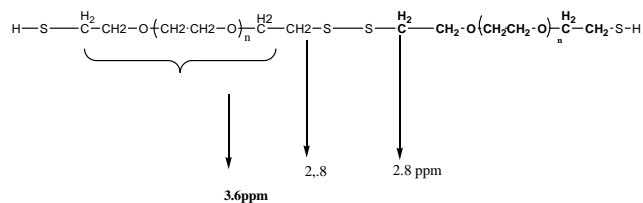


Composition:

Mn x 10 ³	PDI
2.4	1.25

Synthesis Procedure:

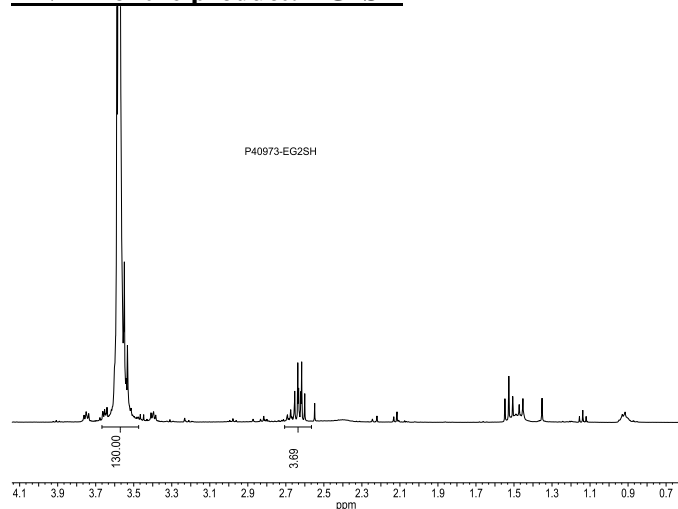
Poly (ethylene glycol) with dithiol linkage was obtained by the anionic polymerization using potassium salt of 2,2'-Dithiodiethanol.



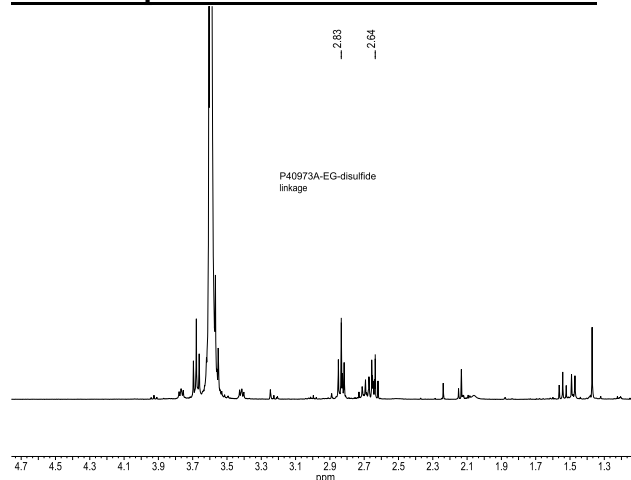
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

HNMR of the product: EG2SH

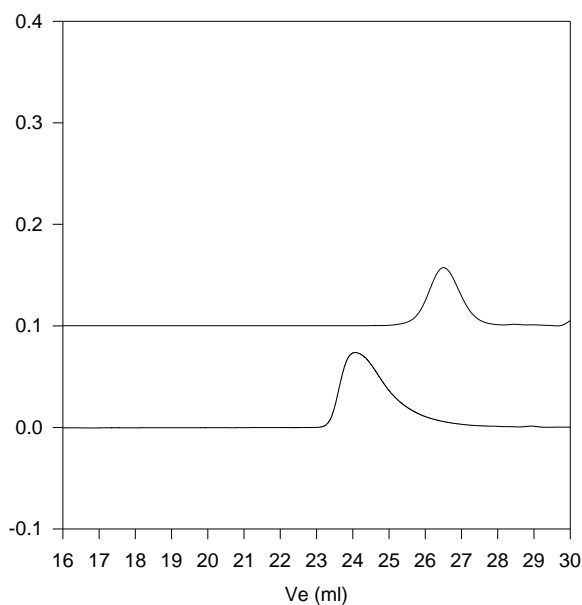


HNMR of product after oxidation with Al₂O₃:



SEC Profile of the Sample:

P40973-EG-SS-EG



Size exclusion chromatography of poly(ethylene glycol)
Mn=1,400, Mw=1,500, PI=1.10 After Oxidation of Thiol terminal group